

**METHOD AND SYSTEM FOR THE OPTIMAL FORMATTING, REDUCTION
AND COMPRESSION OF DEX/UCS DATA**

ABSTRACT OF THE DISCLOSURE

A method and system for communicating data between a network operations center and a remote device is described. Vending machine state information is communicated between a vending site and a network operations center using a delta scheme. A database, maintained by the network operations center, maintains a history of the activity of a variety of vending machines located at a variety of vending sites. To minimize the data needed to be transmitted between the vending site and the network operations center, the network operations center, in one embodiment, will request information from the vending site regarding the change in state of the various vending machines. The vending machines are responsible for restructuring a data block, calculating a delta for the change in state of the machine, applying a compression algorithm to the calculated delta and then transmitting the delta to the network operations center. Upon receipt of the delta, the network operations center can update the database by combining the delta with the previous state information stored in the database.